

ABSTRACT OF THE DISCLOSURE

Embodiments of the invention include a MIM capacitor that has a high capacitance that can be manufactured without the problems that affected the prior art. Such a capacitor includes an upper electrode, a lower electrode, and a dielectric layer that is intermediate the
5 upper and the lower electrodes. A first voltage can be applied to the upper electrode and a second voltage, which is different from the first voltage, can be applied to the lower electrode. A wire layer, through which the first voltage is applied to the upper electrode, is located in the same level as or in a lower level than the lower electrode.